View Manager 16 Plus Enhanced TOUCH TRACKER®

Installation Guide

RCTT16BE

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About this Guide

These installation instructions explain how to setup the VM16+ Enhanced TOUCH TRACKER. Other related documents are:

- System Operator's Manual, 8000-2653-01
- Quick Reference Guide, 8000-2654-01

If you need assistance...

Contact your Sensormatic Representative.

Changes from Prior Version

Significant changes are noted with revision bars in margins.

- Updated bill of materials for RVEIMKITE.
- Moved location of installation diagrams in document.
- Updated wiring diagrams for Intellex units and Duplex Remote Panel.
- Updated Regulatory Compliance statement.

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TOUCH TRACKER Installation

RVEIMKITE TOUCH TRACKER Installation Kit

Part Number	Description	Quantity
6003-0047-01	CBL/A, MDR, 14',8 C,CROSS-P'D	1
5899-0004-102	SCR, TCUT, M2.9X9.5, PHP, ST,Z,T1	1
2880-0083-01	ANCH, PL, W/O SCR, 3/4L,#4-#6-#8	2
2816-7634-44	SCR, TYP AB, PHP, ST, Z, 8X1	2
2109-0254-04	CON, P, EUR,.2C,28-12G,1X5P	1
2141-0002	LUG, SPADE, INSUL, 22-168	3
6002-0024-01	CBL, 3C, 18G, CM	16.5
0649-0006-02	BAG PLASTIC 4 X 6 1/2 4MIL	1
0649-0006-04	BAG PLASTIC 8 X 10 4 MIL THK	1
2450-0008-01	LBL, BLNK, PAP, THERM, 89X76M, RL	1
3600-0032-01	PRINTING SPEC, LABEL	0
0300-1000-01	INTERCONNECT BOX, TOUCH TRACK	1
6003-0107-01	CBL/A, QUAD, SW, INTFCE	1
2125-0007-02	HOOD, D, 9P, EMI/RFI, 1/4 D CBL	1
2130-0021-01	CON, D,P, HSG, 9P, SSI	1
2103-0092-01	CONT, P, D, 26-22,AU	3
0650-1079-01	CABLE ASSY, VM8 TOUCHTRACKER/VI	1
8000-2672-01	INSTL INSTRS, TT ENHANCED	1
0649-0006-06	BAG, PLASTIC 12-1/2 X 14X4MIL	1
8000-2653-01	SYS OPERATOR'S MANUAL, VM16	1
8000-2654-01	SYS QUICK GUIDE, VM16	1
8000-1370-02	TTRACKER STRAIN RELIEF INSTR	1
6003-0108-01	CBL/A, VM16+/TNG, MUX/INTFCE	1
RPNR00	CBL/A, RS-232, 10', DB9F-DB9M	1

For Quad Splitter (RVQX7X) with DB9 Connector

These additional parts are required.

PN	Description	Quantity
2125-0007-02	DB9 Hood	2
2103-0092-02	DB9 Female contact pins	5
2103-0092-01	DB9 Male contact pins	5
2130-0021-01	DB9 Male Connector	1
2130-0022-01	DB9 Female Connector	1

WARNING: RISK OF ELECTRIC SHOCK! Disconnect AC Power to the switch.

CAUTION-Electrostatic Sensitive Device: Follow proper handling procedures to prevent component failure.

Note: Prior to installing the Enhanced TOUCH TRACKERS, identify the type of external unit that will connect to the Enhanced TOUCH TRACKER, if applicable. Build any cables that are required. Refer to the **Installation Diagrams** starting on page 3 for specific instructions.

1. Terminate the External Interconnect Module (EIM) at the end of the SensorNet network. If more than one Enhanced TOUCH TRACKER controller will be installed, one TOUCH TRACKER's EIM will be terminated; the other EIM will be unterminated. Refer to the appropriate wiring diagram for your configuration.
2. Mount each EIM on a wall or other surface within 3m (10 feet) of the Touch Tracker controller.
3. Connect the power transformer and SensorNet cable to J3 on each EIM. If two Touch Trackers will be installed, connect the SensorNet cable from the first EIM to the second EIM.
4. Depending on the external unit that will be attached to your system, connect the appropriate cable to the DB9 connector on the EIM. Refer to the appropriate wiring diagram for additional details.
5. Connect the data cable from J1 on the Primary TOUCH TRACKER's EIM to the remote port on the external unit. Refer to the appropriate wiring diagram for additional details.
6. Connect the modular cable from J2 on each EIM to the TOUCH TRACKER controller.
7. Connect the SensorNet cable from the dome to the first EIM. Refer to the appropriate wiring diagram for additional details.
8. Plug in the power transformer into a grounded, 3-wire receptacle.

Note: If the keypad and backlighting do not illuminate when power is applied, unplug each power transformer and repeat steps 3 through 8.

Depending on system configuration, it may take up to 2 minutes for the Enhanced TOUCH TRACKER to come completely online.

Continue with **Configuring the External Device**.

Installation Diagrams

The following pages illustrate the installation of the VM16+ Enhanced Touch Tracker in the following configurations:

Enhanced Touch Tracker with Multiplexer (DB25 connection).....4

Enhanced Touch Tracker with Multiplexer (RJ11 connection) 5

Enhanced Touch Tracker with Quad Splitter (RJ45 connection) 6

Enhanced Touch Tracker with RVQX7X Quad Splitter 7

Enhanced TOUCH TRACKER with Intellex 1.x 8

Enhanced Touch Tracker with Intellex 2.0.....9

Enhanced Touch Tracker with Intellex 2.1.....10

Enhanced Touch Tracker and Duplex Remote Panel (RVDRP) 11

Enhanced TOUCH TRACKER with Domes Only (No External Unit) 12

Refer to the appropriate diagram when connecting the Enhanced Touch Tracker.

Installation Notes

- Depending on configuration, two Enhanced TOUCH TRACKERS may be installed. Terminate E1 on the EIM that is on the end point of the SensorNet Network.
- The maximum combined SensorNet cable length is 1000 m (one km or 3000').
- J-Box and dome wiring information is included for information purposes only. Refer to the J-Box or dome installation instructions for complete wiring information.

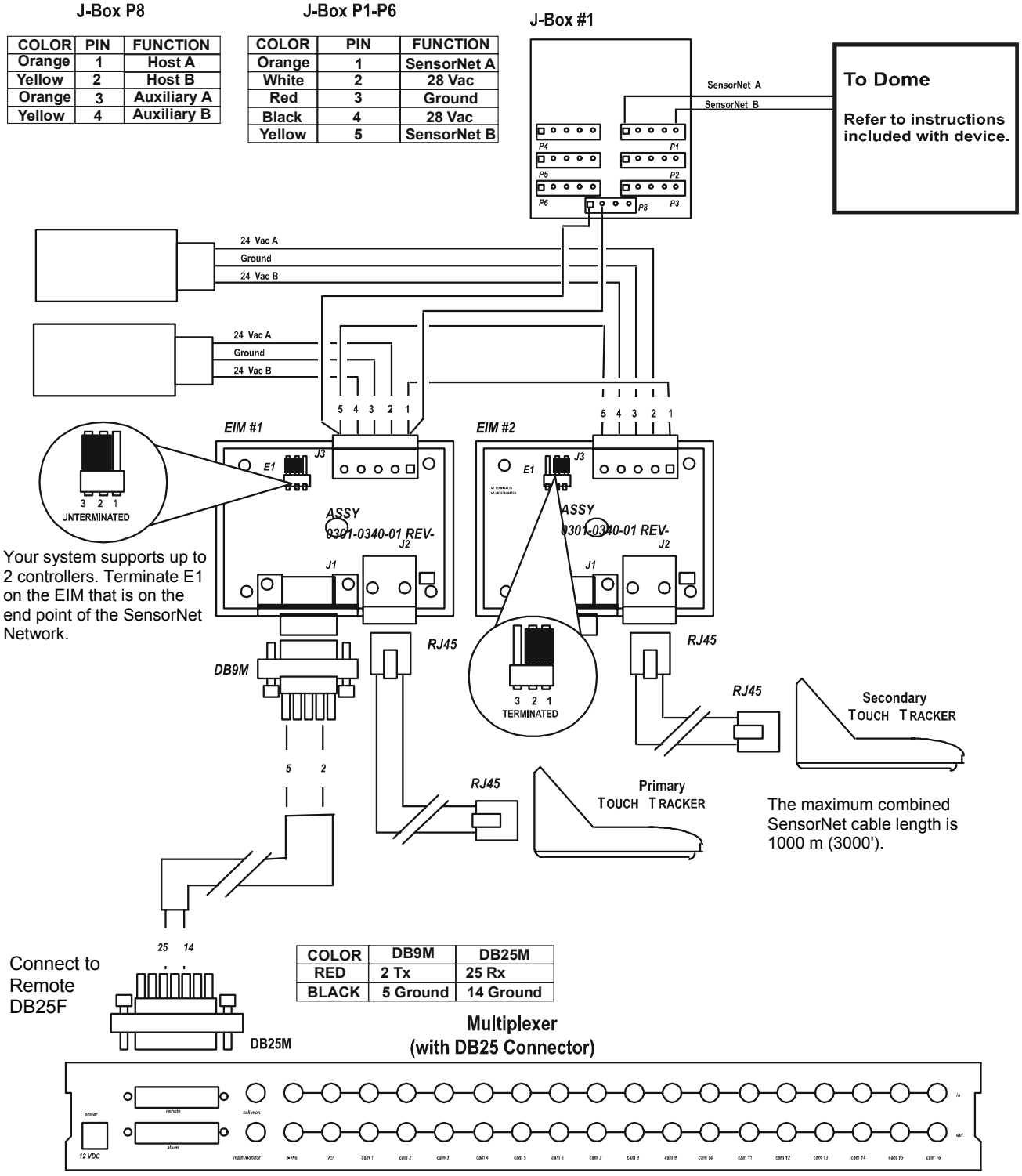
Enhanced TOUCH TRACKER with Multiplexer (DB25 connection)

J-Box P8

COLOR	PIN	FUNCTION
Orange	1	Host A
Yellow	2	Host B
Orange	3	Auxiliary A
Yellow	4	Auxiliary B

J-Box P1-P6

COLOR	PIN	FUNCTION
Orange	1	SensorNet A
White	2	28 Vac
Red	3	Ground
Black	4	28 Vac
Yellow	5	SensorNet B



COLOR	DB9M	DB25M
RED	2 Tx	25 Rx
BLACK	5 Ground	14 Ground

Multiplexer (with DB25 Connector)

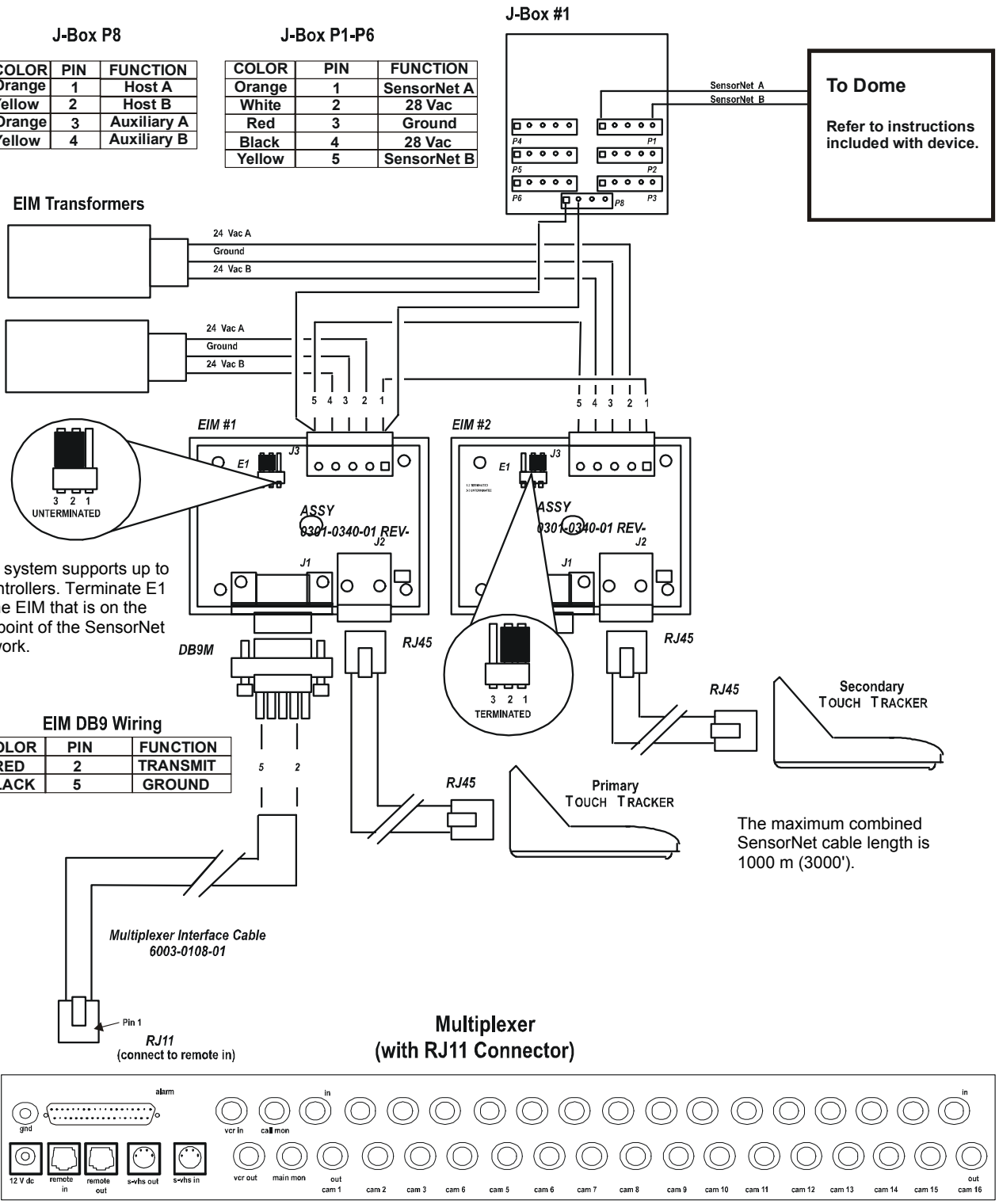
Enhanced TOUCH TRACKER with Multiplexer (RJ11 connection)

J-Box P8

COLOR	PIN	FUNCTION
Orange	1	Host A
Yellow	2	Host B
Orange	3	Auxiliary A
Yellow	4	Auxiliary B

J-Box P1-P6

COLOR	PIN	FUNCTION
Orange	1	SensorNet A
White	2	28 Vac
Red	3	Ground
Black	4	28 Vac
Yellow	5	SensorNet B



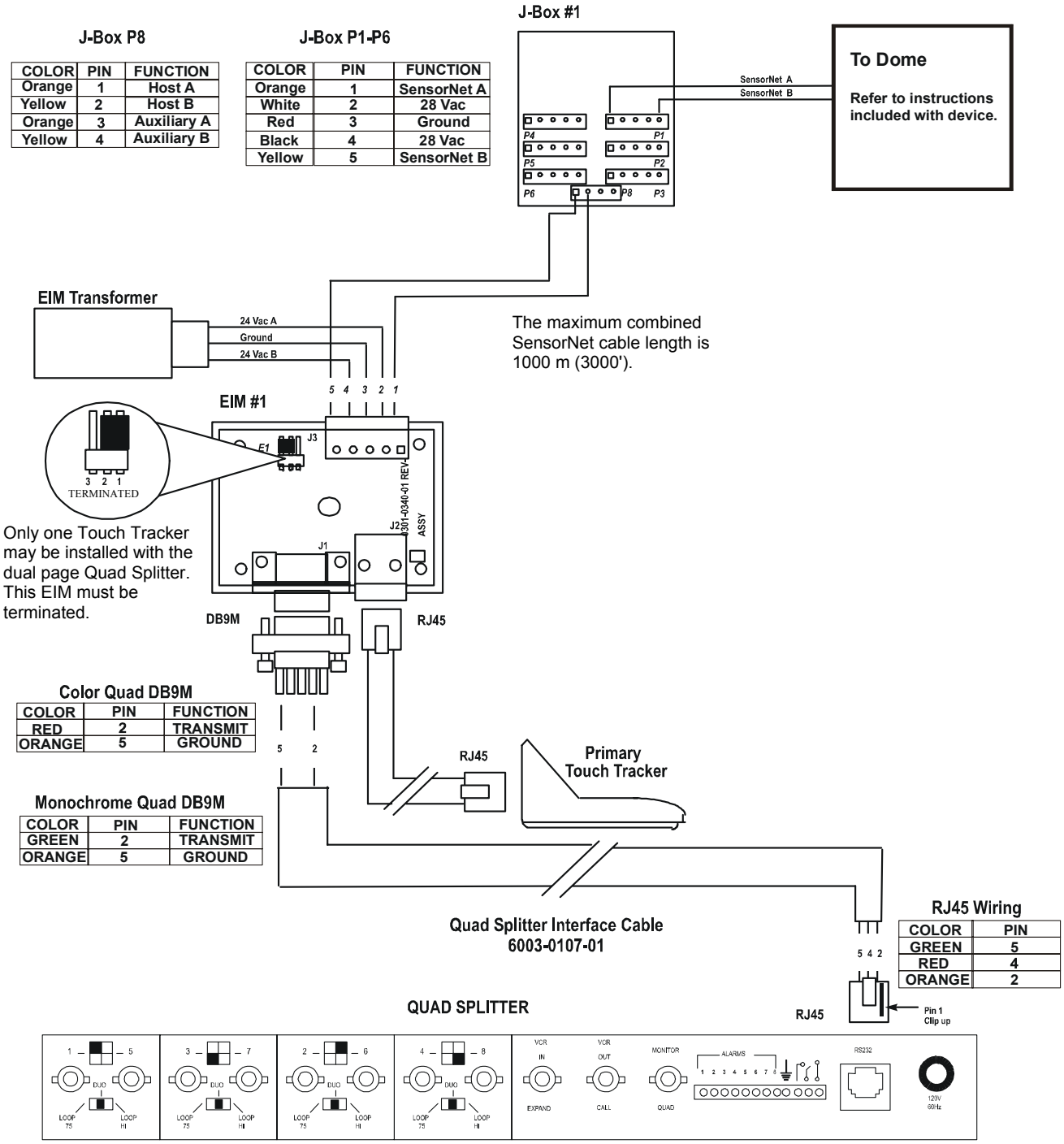
Your system supports up to 2 controllers. Terminate E1 on the EIM that is on the end point of the SensorNet Network.

EIM DB9 Wiring

COLOR	PIN	FUNCTION
RED	2	TRANSMIT
BLACK	5	GROUND

The maximum combined SensorNet cable length is 1000 m (3000').

Enhanced TOUCH TRACKER with Quad Splitter (RJ45 connection)



COLOR	PIN	FUNCTION
Orange	1	Host A
Yellow	2	Host B
Orange	3	Auxiliary A
Yellow	4	Auxiliary B

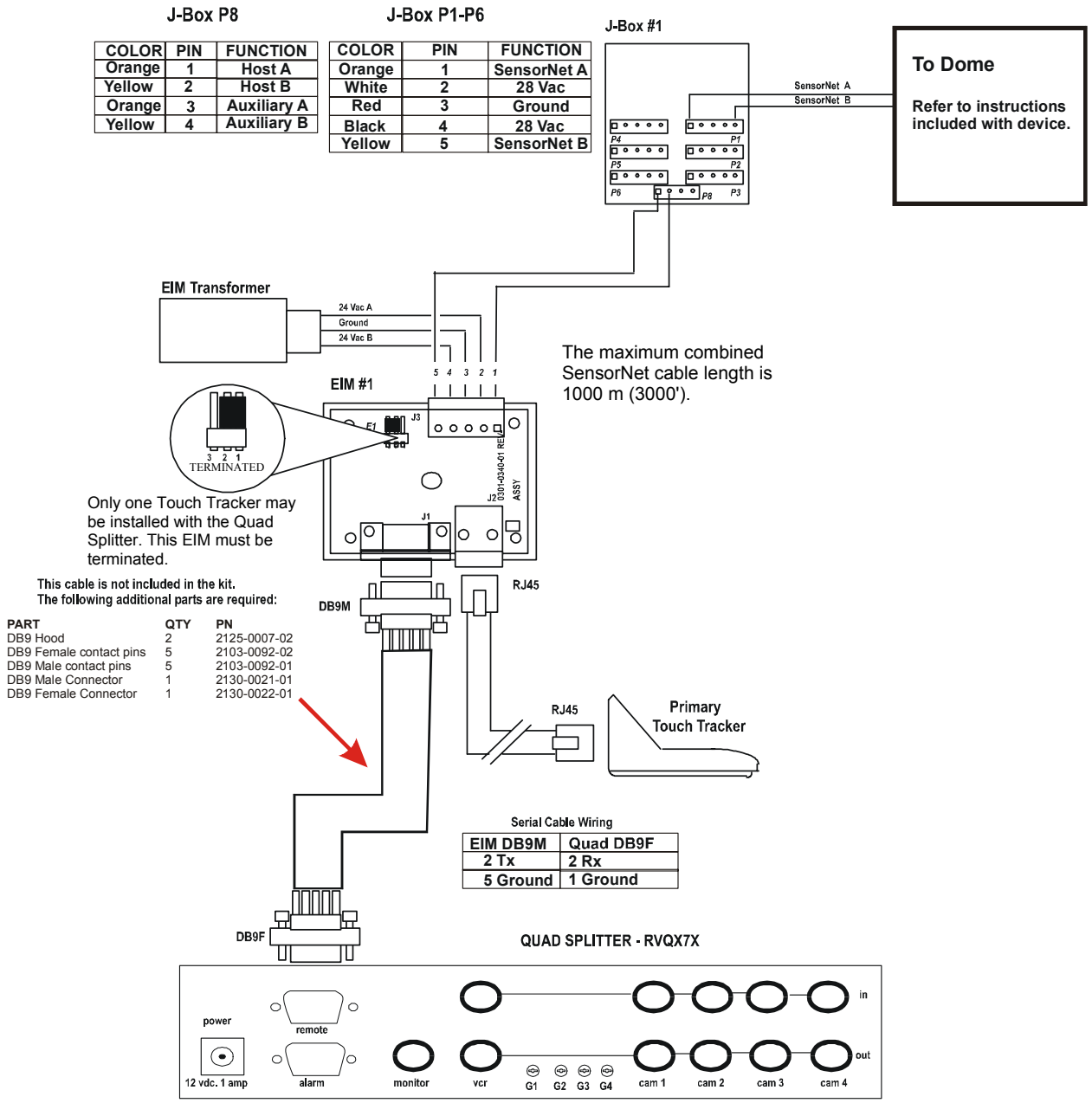
COLOR	PIN	FUNCTION
Orange	1	SensorNet A
White	2	28 Vac
Red	3	Ground
Black	4	28 Vac
Yellow	5	SensorNet B

COLOR	PIN	FUNCTION
RED	2	TRANSMIT
ORANGE	5	GROUND

COLOR	PIN	FUNCTION
GREEN	2	TRANSMIT
ORANGE	5	GROUND

COLOR	PIN
GREEN	5
RED	4
ORANGE	2

Enhanced Touch Tracker with RVQX7X Quad Splitter



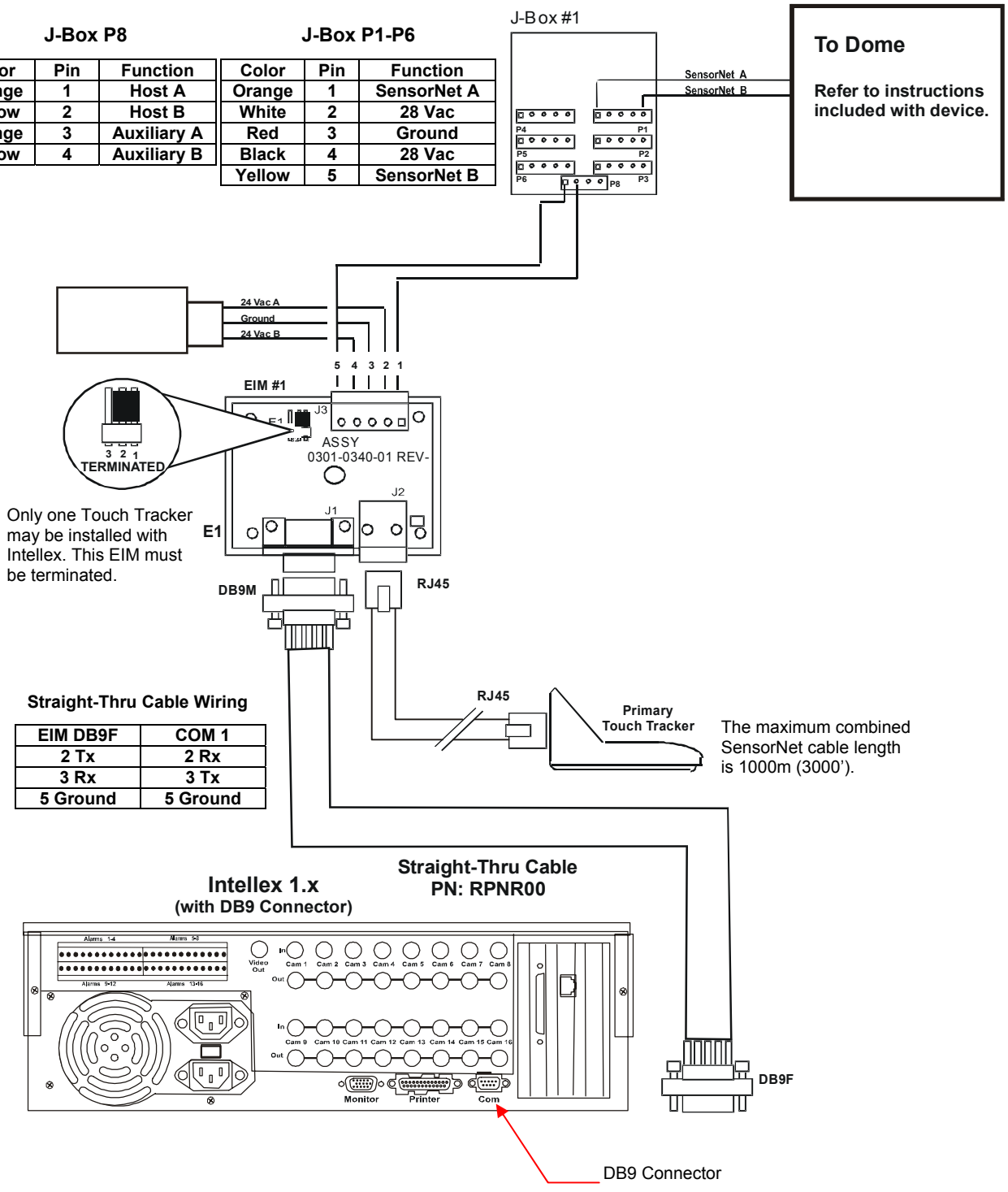
Enhanced TOUCH TRACKER with Intellex 1.x

J-Box P8

Color	Pin	Function
Orange	1	Host A
Yellow	2	Host B
Orange	3	Auxiliary A
Yellow	4	Auxiliary B

J-Box P1-P6

Color	Pin	Function
Orange	1	SensorNet A
White	2	28 Vac
Red	3	Ground
Black	4	28 Vac
Yellow	5	SensorNet B



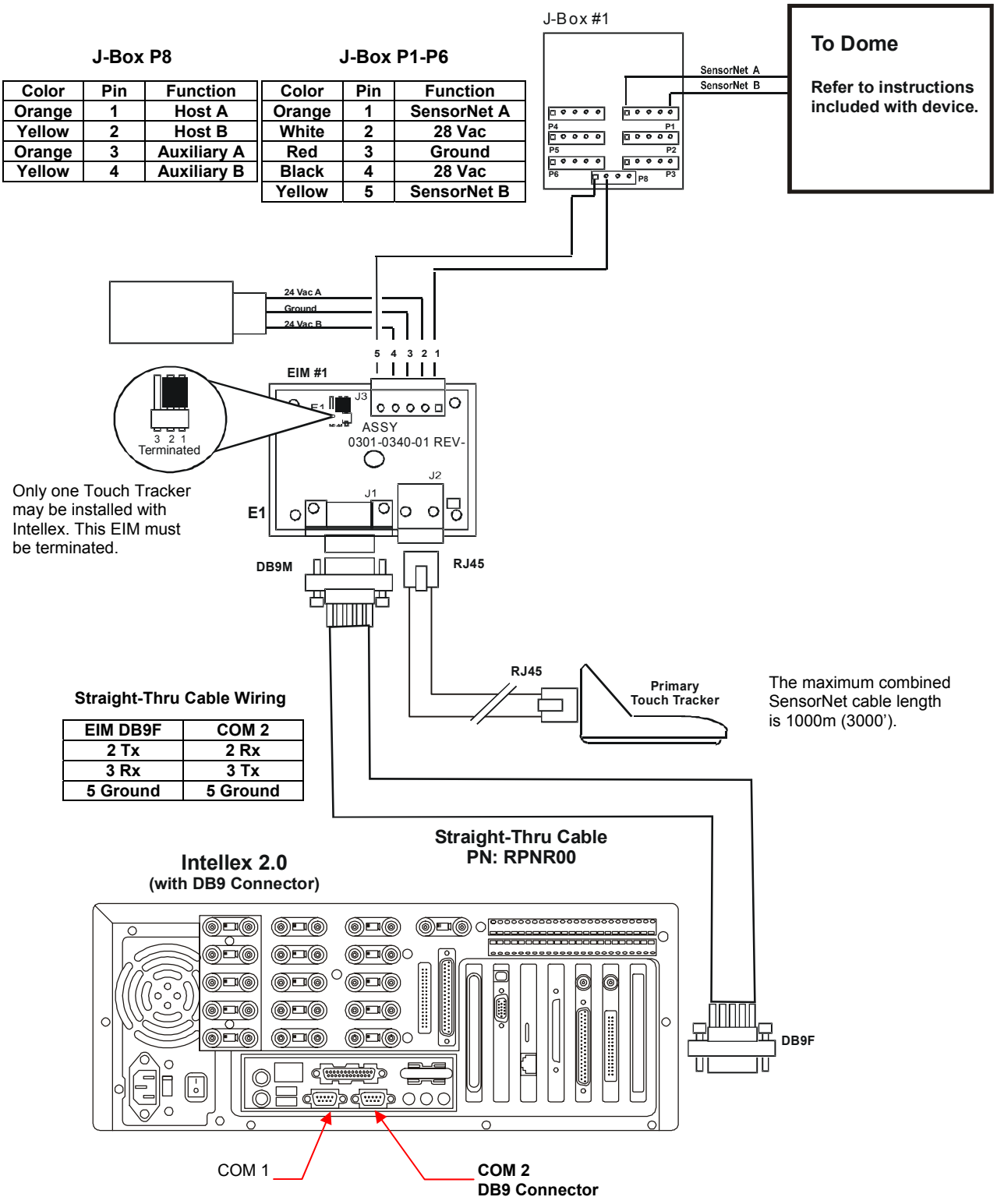
Enhanced Touch Tracker with Intellex 2.0

J-Box P8

Color	Pin	Function
Orange	1	Host A
Yellow	2	Host B
Orange	3	Auxiliary A
Yellow	4	Auxiliary B

J-Box P1-P6

Color	Pin	Function
Orange	1	SensorNet A
White	2	28 Vac
Red	3	Ground
Black	4	28 Vac
Yellow	5	SensorNet B



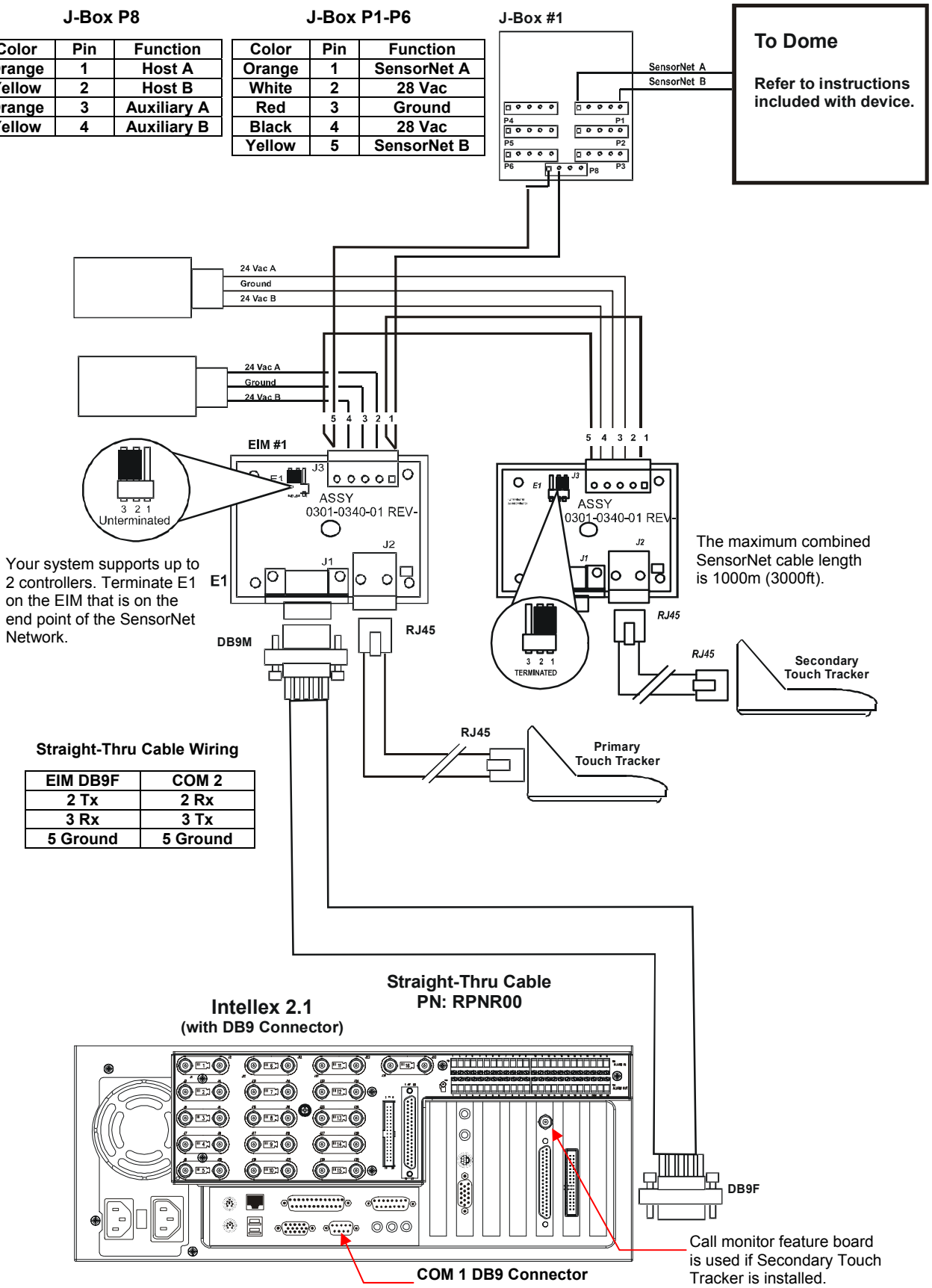
Enhanced Touch Tracker with Intellex 2.1

J-Box P8

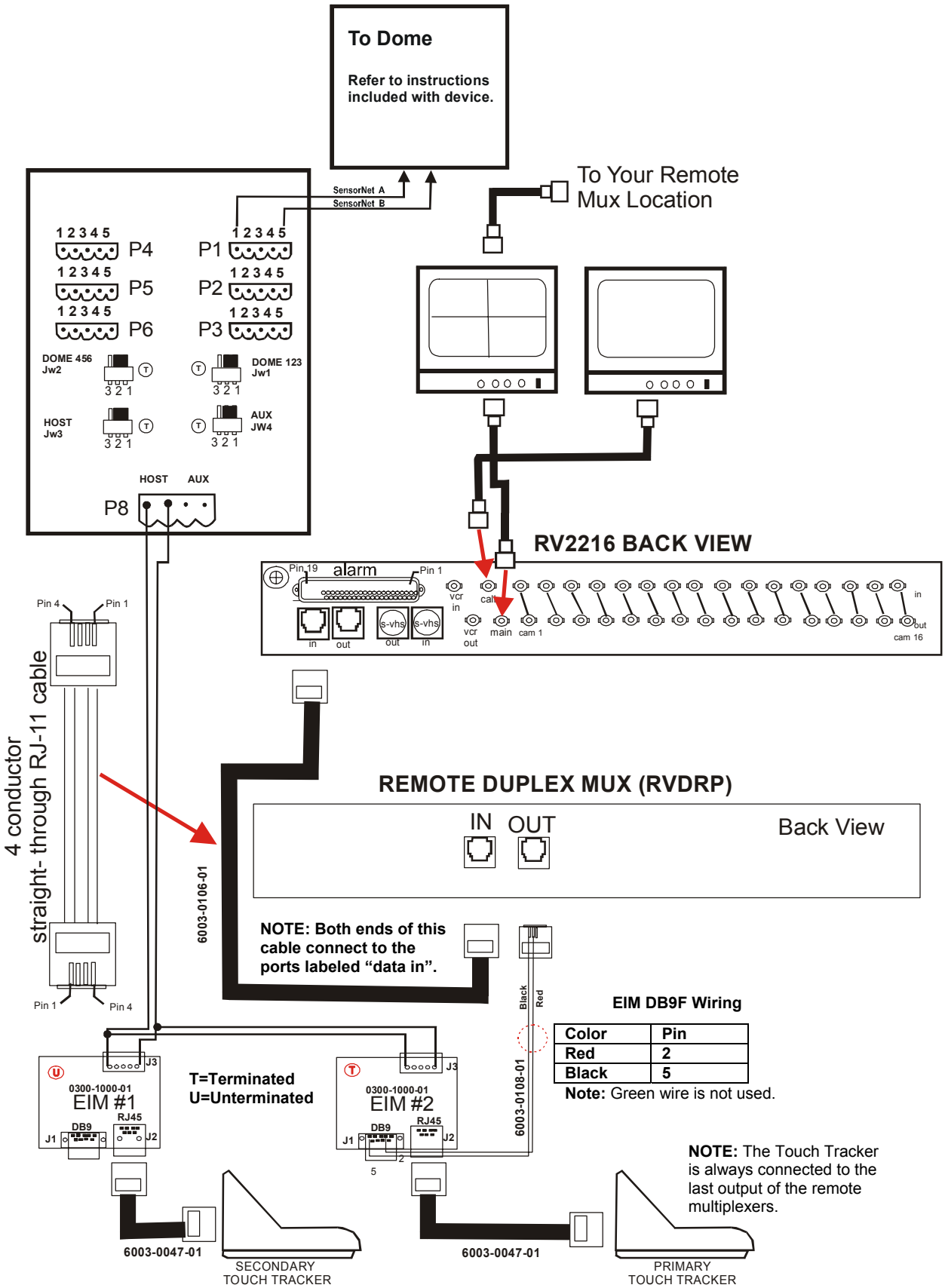
Color	Pin	Function
Orange	1	Host A
Yellow	2	Host B
Orange	3	Auxiliary A
Yellow	4	Auxiliary B

J-Box P1-P6

Color	Pin	Function
Orange	1	SensorNet A
White	2	28 Vac
Red	3	Ground
Black	4	28 Vac
Yellow	5	SensorNet B

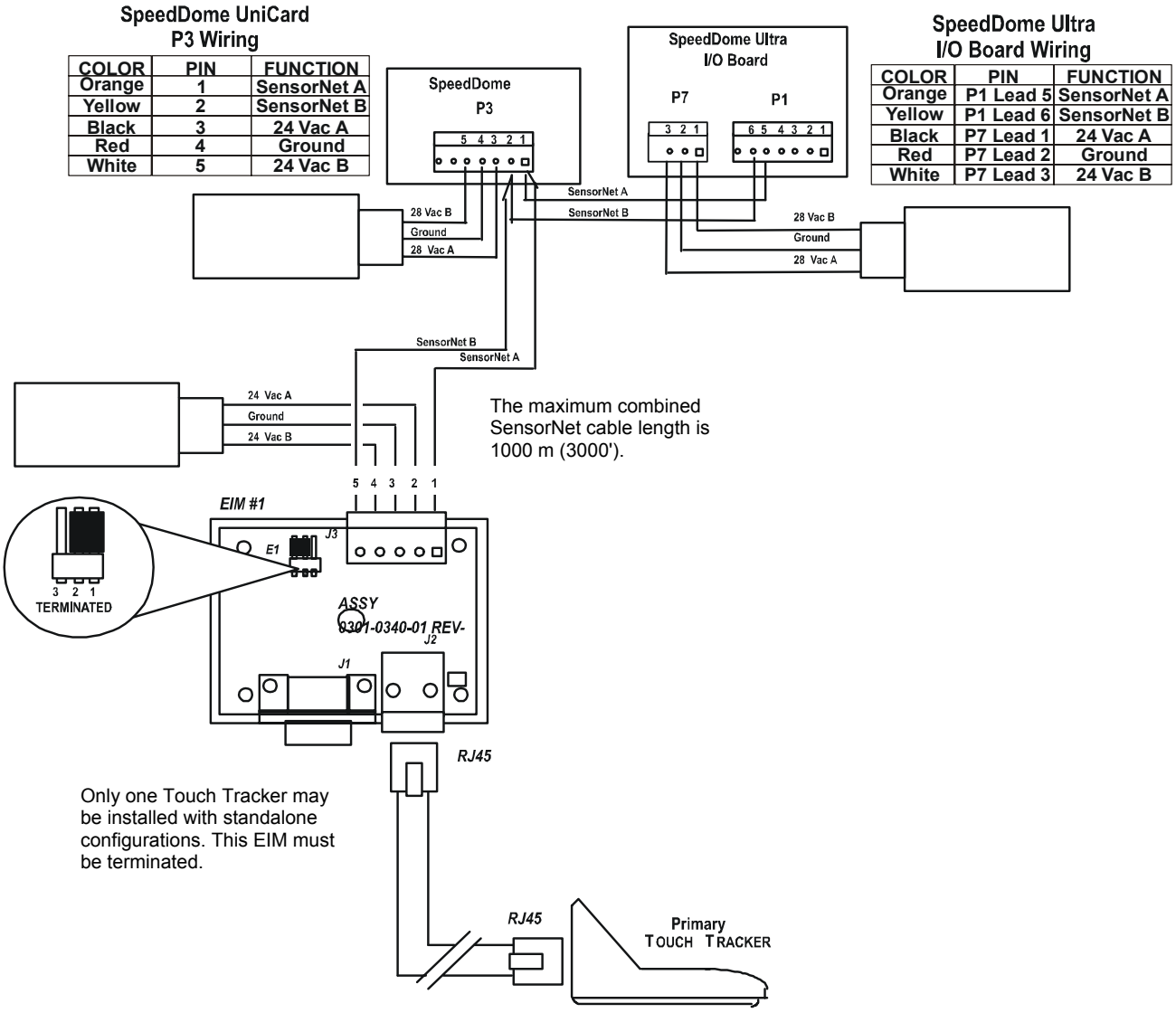


Enhanced TOUCH TRACKER and Duplex Remote Panel (RVDRP)



Enhanced TOUCH TRACKER with Domes Only (No External Unit)

Use this wiring diagram when domes will be connected to dedicated monitors.



Configuring the External Device

Use this procedure to select the external device that connects to the Enhanced TOUCH TRACKER.

1. From the primary Enhanced TOUCH TRACKER, press **Menu** to configure the software for the external system. The menu appears on the LCD.
2. Use the Tracker Ball to scroll through the menu until **`Config Devices`** appears on the LCD screen. Press zoom or focus to select `Config Devices`.
3. Press **Next** to scroll through the available devices. Refer to the following chart to determine which device to select.

Device Setting	Use with...
`Device =Mux 16 = POSEM`	16-camera Multiplexer and Intellex
`Device =Mux 9 = POSEM`	9-camera Multiplexer
`Device =Mux 4 = POSEM`	4-camera Multiplexer, dual page Quad Splitter, and Quad Splitter (RVQX7X)
`Device =Quad = POSEM`	Quad Splitter with DB9F-RJ45 connection
`Device =None`	Domes connected to dedicated monitors (no external device).
`Device =PC`	For Service use only

4. When the correct configuration appears on the LCD, press **Menu**.

Continue with **Setting Primary and Secondary Unit**.

Setting Primary and Secondary Unit

NOTE: Quad Splitter, Intellex 1.x and 2.0, and stand-alone installations support only one Touch Tracker.

If you have two Enhanced TOUCH TRACKERS installed, one must be designated as Primary; the other must be designated as Secondary. If you have only one Enhanced TOUCH TRACKER installed, it must be designated as Primary.

1. Press **Menu**.
2. Using the Tracker Ball, scroll the menu choices until `Tog Primary/2nd` appears on the LCD.
3. Press zoom or focus to select `Tog Primary/2nd`. Zoom selects the top line; focus selects the bottom line.
4. Press **Next** to toggle between setting the Enhanced TOUCH TRACKER as primary or secondary. When the appropriate choice appears on the LCD, press **Menu**. The Enhanced TOUCH TRACKER will reset.

Repeat this procedure for each Enhanced TOUCH TRACKER.

Additional Touch Tracker Tasks

The following maintenance functions can be performed using the Touch Tracker. When using the menus, pressing **Zoom** selects the first line of the LCD; pressing **Focus** selects the second line of the LCD.

Displaying System Information

This procedure displays system information about the Enhanced TOUCH TRACKER being used.

1. Use the number buttons to the select the dome to reset, and then press (**Camera** button).
2. Press **Menu**.
3. Using the Tracker Ball, scroll through the choices until `System Info` appears on the LCD.
4. Press **Zoom** or **Focus** to select `System Info`.
5. Press **Next** or **Previous** to scroll through the information.

   The LCD displays the following information:

   - Unit Type: Primary or Secondary
   - ROM Checksum Values
   - Calibration information (display should read all 0)
   - Product Code Flash Version
   - Product Code EEPROM Version
6. Press **Menu** to resume camera control mode.

Performing the SensorNet Ping Test

This procedure tests communications between the Enhanced TOUCH TRACKER and domes installed at your facility.

1. Use the number buttons to the select the dome to ping then press (**Camera** button).
2. Press **Menu**.
3. Using the Tracker Ball, scroll through the choices until `Ping Dome/TTR` appears on the LCD.
4. Press **Zoom** or **Focus** to select `Ping Dome/TTR`.
5. Press **Next** to start the network test on the primary or secondary Touch Tracker.
6. Press **Menu** to exit.

Note: Off-line domes or fixed cameras will generate a warning beep and not permit the use of the Ping test.

Resetting a Dome

This feature allows you to reinitialize a SpeedDome or SpeedDome Ultra family camera dome.

1. Use the number buttons to the select the dome to reset then press (**Camera** button).
2. Press **Menu**.
3. Using the Tracker Ball, scroll through the choices until `Reset Dome` appears on the LCD.
4. Press **Zoom** or **Focus** to select `Reset Dome`.

The Enhanced TOUCH TRACKER sends a request to the selected dome to reboot. After a brief delay, the TOUCH TRACKER resumes camera control mode.

Adjusting V-Phase

Use this procedure to adjust the vertical phase for cameras installed with your system.

1. Press **Menu**.
2. Using the Tracker Ball, scroll through the choices until `Adjust V-phase` appears on the LCD.
3. Press **Zoom** or **Focus** to select `Adjust V-phase`.
4. Press **Next** or **Previous** to observe V-phase through the oscilloscope or Fluke scope.
5. When you are satisfied with the setting, press **Menu** to exit.

Note: Off-line domes or fixed cameras will generate a warning beep and not permit the use of the V-phase utility.

Specifications

SensorNet

Bit Rate:..... 230.4Kbps

Physical Layer: ..... Non-shielded twisted pair

Link Layer Protocol: ..... SDLC

Application Protocol: ..... Proprietary

Network Nodes: ..... Touch Tracker, SensorNet Domes

Enhanced Touch Tracker

Operator Inputs: ..... 31-key keypad, 4 micro-switches, 1 Tracker Ball

Operator Outputs: ..... LCD screen (2-line x 16 character)

Control Input/Output: ..... SensorNet (Domes, Touch Tracker), RS-232 (multiplexer or quad splitter)

Electrical

Power Source: ..... 16–30Vac at 50/60Hz

Power Consumption: ..... 1400mA, 2A max.

Mechanical, Touch Tracker

Height: 13cm (5in.)

Width: 19cm (7.5in.)

Depth: 26cm (10in.)

Weight: 1kg (2.2lbs)

Environmental

Operating Temperature: ... 0°–50°C (32°–122°F)

Relative Humidity: ..... 0%–95% non-condensing

Storage Temperature: ..... -20°–64°C (-4°–149°F)

Product Compatibility

SensorNet Interface: ..... SpeedDome family

RS-232 Serial Port: ..... Monochrome Mux, Color Mux, Monochrome Quad, Color Quad, Intellex, Standard PC

Declarations

Regulatory Compliance

Emissions:..... FCC Part 15 Class A; EN 55022 Class B.

Immunity: ..... EN 50130-4

Safety — Complies with: UL1950; CSA - C22.2 No 950-M89; EN 60950.

FCC COMPLIANCE: This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

EQUIPMENT MODIFICATION CAUTION: Equipment changes or modifications not expressly approved by Sensormatic Electronics Corporation, the party responsible for FCC compliance, could void the user's authority to operate the equipment and could create a hazardous condition.

Other Declarations

INSTALLATION: This installation should be made by a qualified service person and should conform to all local codes. In North America, this device is intended to be supplied from a nominal 24Vac Class 2 power supply. In the EU, this device is intended to be powered from a Certified (for the country of use), CE marked, source of SELV, not exceeding 240 VA available.

INSTALLATION: Diese Installation sollte von einem qualifizierten Wartungstechniker vorgenommen werden und allen örtlichen Vorschriften entsprechen. In Nordamerika ist dieses Gerät für die Stromversorgung durch ein Netzgerät der Klasse 2 mit einer Nennleistung von 24 V Wechselstrom vorgesehen. In der EG ist dieses Gerät für die Stromversorgung durch eine (für das Verwendungsland) zertifizierte, mit der CE Marke versehene Schutzkleinspannungsquelle (SELV) vorgesehen, die 240 V Wechselstrom nicht überschreiten darf.

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RLJ 5/05